LLL	00000000	GGGGGGGGGG	111111111	NNN	NNN
LLL	00000000	GGGGGGGGGG	11111111	NNN	NNN
LLL	00000000	GGGGGGGGGG	11111111	NNN	NNN
LLL	000 000	GGG	İİİ	NNN	NNN
LLL	000 000	ĞĞĞ	ĬĬĬ	NNN	NNN
iii	000 000	ĞĞĞ	ĬĬĬ	NNN	NNN
ίίι	000 000	ĞĞĞ	ĬĪĪ	NNNNNN	NNN
ίίί	000 000	ĞĞĞ	ĪĪĪ	NNNNNN	NNN
ίίι	000 000	ĞĞĞ	ĬĬĬ	NNNNNN	NNN
ίιί	000 000	ĞĞĞ	ĪĪĪ	NNN NNN	NNN
ίίί	000 000	ĞĞĞ	ĪĪĪ	NNN NNN	NNN
ίίί	000 000	ĞĞĞ	ĬĬĬ	NNN NNN	NNN
iii	000 000	GGG GGGGGGG	ĬĬĬ		NNNNN
ίίί	000 000	GGG GGGGGGG	ĪĪĪ		NNNNNN
ַנ <u>ֿנ</u>	000 000	GGG GGGGGGG	ĪĪĪ		NNNNNN
ίίί	000 000	GGG GGG	ĪĪĪ	NNN	NNN
ַנ <u>ֿנ</u>	000 000	ĞĞĞ ĞĞĞ	ĬĬĬ	NNN	NNN
ĬĬĬ	000 000	GGG GGG	ĬĬĬ	NNN	NNN
LLLLLLLLLLLLL	00000000	GGGGGGGG	111111111	NNN	NNN
	00000000	GGGGGGGG	ĪĪĪĪĪĪĪĪĪĪ	NNN	NNN
LLLLLLLLLLLLL'	00000000	66666666	ĬĬĬĬĬĬĬĬĬĬ	NNN	NNN

	88888888 88 88 88 88 88 88 88 88 88 88 88 888888	HH HH HH HH HH HH HH HH HH HH HH HHHHHHH	000000 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
LL LL LL LL LL LL LL LL LL LL LL LL LL	\$			

L0G V04

f 12 LIB\$HOUR_OF_DAY
Table of contents 16-SEP-1984 02:05:38 VAX/VMS Macro V04-00 L0G V04 ; find numeric hour of day Page 0 HISTORY ; DECLARATIONS LIB\$HOUR_OF_DAY -(2) (3) (4) 44 50 75 ; Detailed Current Edit History

Page (1)

.TITLE LIBSHOUR OF DAY .IDENT 'V04-000' ; find numeric hour of day 0000 ŎŎŎŎ 0000 ******************* 0000 0000 COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. 0000 0000 ALL RIGHTS RESERVED. 0000 0000 THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER 10 . • 11 0000 0000 COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY 0000 14 :* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY 0000 15 :* TRANSFERRED. 16 :* 17 :* 0000 0000 THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE 0000 18 AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT 0000 19 CORPORATION. 0000 2012334567 0000 DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS 0000 SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. 0000 0000 0000 0000 ; FACILITY: Language-independent support library 0000 0000 0000 : ABSTRACT: 0000 0000 0000 0000 : VERSION: 1 0000 0000 HISTORY: 38 39

AUTHOR:

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Herb Jacobs

November 1981

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LOG VO4

H 12 ; Find numeric hour of day 16-SEP-1984 02:05:38 VAX/VMS Macro V04-00 HISTORY ; Detailed Current Edit History 5-SEP-1984 01:46:06 [LOGIN.SRC]LIBHOUR.MAR;1 Page (2) .SBTTL HISTORY ; Detailed Current Edit History 44

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```
J 12
                                                                                      16-SEP-1984 02:05:38 VAX/VMS Macro V04-00 5-SEP-1984 01:46:06 [LOGIN.SRC]LIBHOUR.MAR;1
LIBSHOUR_OF_DAY
                                        Find numeric hour of day
                                                                                                                                                  Page
V04-000
                                      LIBSHOUR_OF_DAY -
                                                                                                                                                         (4)
                                                     75
76
77
                                            0000
                                                                  .SBTTL LIBSHOUR_OF_DAY -
                                            0000
                                                     78
79
                                            0000
                                                          FUNCTIONAL DESCRIPTION:
                                            ŎŎŎŎ
                                            0000
                                                     80
                                                                  This routine returns the numeric hour of the day for an input time
                                            ŎŎŎŎ
                                                                  value. If the input value is ommitted, the current hour of the day
                                            ŏŏŏŏ
                                                                  at this time is returned. Midnite is considered 0, highest hour is
                                            ŎŎŎŎ
                                            ŎŎŎŎ
                                            ŏŏŏŏ
                                                     85
                                                           CALLING SEQUENCE:
                                           0000
                                                                  ret = LIB$HOUR_OF_DAY ( time_64_bit_Q, output_hour_L)
                                            0000
                                           0000
                                                           INPUT PARAMETERS:
                                           ŎŎŎŎ
                                                     90
                                           0000
                                                                  time_64_bit_Q - Address of a quadword representing time or O
                                            0000
                                           0000
                                                           IMPLICIT INPUTS:
                                           0000
                                           0000
                                                     95
                                                                  If time_64_bit_Q is O, then the current system time is used.
                                           0000
                                           0000
                                                           OUTPUT PARAMETERS:
                                           0000
                                           0000
                                                     99
                                                                  output_hour_L - Address of a longword to recieve the hour
                                           0000
                                                    100
                                           0000
                                                    101
                                                           IMPLICIT OUTPUTS:
                                                    102
                                           0000
                                           0000
                                                                  NONE
                                           0000
                                                    104
                                           0000
                                                    105
                                                           COMPLETION CODES:
                                           0000
                                                    106
                                           0000
                                                    107
                                                                  SS$_NORMAL
                                                                                     - success
                                           0000
                                                    108
                                           0000
                                                    109
                                                           SIDE EFFECTS:
                                           0000
                                                    110
                                           0000
                                                    111
                                                                  NONE
                                                    112
                                           0000
                                           0000
                                           0000
                                                                  .entry
                                                        lib$hour_of_day,^M<>
mov[ #Lib
                                    0000
                                           0000
                                                    115
                      00000000'8F
                                           0002
                                                                           #lib$_invarq,r0 :
                                                                                                 assume error
                                                    117
                                                                           #2,(ap)
                                           0009
                                                                                                 are there at least 2 arguments
                           60
                                                                  cmpb
                                       14
                                           000c
                                                                           100$
                                 36
                                                                  bgtru
                                                                                                 branch if not
                                       D0
12
                       51
                             04
                                           000E
                                                    119
                                                                                                 get address of quadword time branch if specified
                                 AC
                                                                            4(ap),r1
                                                                  movi
                                                   120
121
122
123
124 20$:
                                           0012
                                                                            20$
                                                                  bneq
                                       7Ē
                           51
                                 7E
                                           0014
                                                                            -(sp),r1
                                                                                                 area to recieve time in, r1 addr of area
                                                                  Pavom
                                                                           s (r1)
                                           0017
                                                                  Sgett
                                                                                                 get current time
                                                                           ro,100$ (r1),r0
                                                                                                 Branch if error
                                           0020
                             21 50
                                                                  p[pc
                                                                           (r1),r0; get the time
#60*10*1000*1000,r0,r0,r1; get the time in minutes
r1; time in minutes from 1858 is only 32 bits
                           50
                                       7D
                                           0023
                                                                  movq
    51
          50
                50
                      23034600
                                       7B
                                           0026
                                 8F
                                                                  ediv
                                                    126
                                       D4
7B
                                           002F
                                                                  ciri
                                                                                                time in hours into r0
again only 32 bits
r0 number of days, r1 hour of day
                                 3C
51
               51
                     50
                           50
                                           0031
                                                                  ediv
                                                                            #60,r0,r0,r1
                                                    128
129
130
                                       D4
                                           0036
                                                                  clrl
               51
                     50
                           50
                                 18
                                       7B
                                           0038
                                                                  ediv
                                                                            #24,r0,r0,r1
                       08
                                           003D
                                                                  movi
                                                                           r1,88(ap)
                                                                                                 store the hour number
                           ΒC
                                       D0
```

#1,r0

movi

; set success

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LOG VO4

K 12 ; Find numeric hour of day LIB\$HOUR_OF_DAY -

16-SEP-1984 02:05:38 VAX/VMS Macro V04-00 [LOGIN.SRC]LIBHOUR.MAR;1

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L06 V04

; exit, clean stack if needed

ret

.end

132 100\$: 133 134

LOG

V04.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:LIBHOUR/OBJ=OBJ\$:LIBHOUR MSRC\$:LIBHOUR/UPDATE=(ENH\$:LIBHOUR)+EXECML\$/LIB+LIB\$:LOGIN/LIB

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